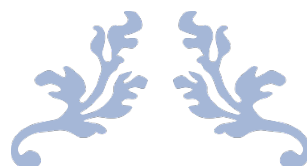


DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KASHMIR



3.4.4 Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years (2019-2023)

Number of research papers published in the Journals as notified on UGC website during the last five years

Total No. of Publications (2019-2023) = 150

Title	Authors	Subject	Journal Name	Year	ISSN No.	Link to website of the Journal
Broad Spectrum Tunable Photoluminescent Material Based on Cascade Fluorescence Resonance Energy Transfer between Three Fluorophores Encapsulated within the Self-Assembled Surfactant Systems	MS Lone, S Afzal, OA Chat, PA Bhat, R Dutta, Y Zhang, N Kundu, AA Dar	Chemistry	The Journal of Physical Chemistry B	2019	1520-5207	https://doi.org/10.1021/acs.jpcc.9b07139
Excimer based FRET between non-FRET pair fluorophores aided by the aromatic moiety of anionic surfactants: An experimental observation	MS Lone, S Afzal, N Nazir, R Dutta, AA Dar	Chemistry	Journal of Molecular Liquids	2019	0167-7322	https://doi.org/10.1016/j.molliq.2018.11.118

<p>Solution properties and micellization behavior of binary mixtures of sodium salts of N-tetradeconyl alanine and N-tetradeconyl phenylalanine surfactants</p>	<p>RA Shah, R Masrat, MS Lone, S Afzal, U Ashraf, GM Rather, AA Dar</p>	<p>Chemistry</p>	<p>Journal of Molecular Liquids</p>	<p>2019</p>	<p>0167-7322</p>	<p>https://doi.org/10.1016/j.molliq.2019.04.044</p>
<p>Transition from Competitive to Non-Competitive Solubilization with the Decrease in Number of Oxyethylene (OE) Units of Non-Ionic Surfactants towards Polycyclic Aromatic Hydrocarbons</p>	<p>Mohd Sajid Lone, Oyais Ahmad Chat, Manu Vashishtha, Aijaz Ahmad Dar</p>	<p>Chemistry</p>	<p>Bulletin of the Chemical Society of Japan</p>	<p>2019</p>	<p>1348-0634</p>	<p>https://doi.org/10.1246/bcsj.20180215</p>
<p>Self-Assembled Monolayers of Vitamin B12 over N-Doped Graphene: A Promising Electro-Catalyst for Hydrogen Evolution and Electro-Oxidative Sensing of H2O2</p>	<p>MA Bhat, SA Bhat</p>	<p>Chemistry</p>	<p>Electrochemical Society Meeting Abstracts ecee2019, 432-432</p>	<p>2019</p>	<p>1091-8213</p>	<p>https://DOI.org/10.1149/MA2019-04/9/432</p>

<p>Cu 2+-BTC based metal-organic framework: a redox accessible and redox stable MOF for selective and sensitive electrochemical sensing of acetaminophen and dopamine</p>	<p>FA Sofi, MA Bhat, K Majid</p>	<p>Chemistry</p>	<p>New Journal of Chemistry 43 (7), 3119-3127</p>	<p>2019</p>	<p>11440546</p>	<p>https://doi.org/10.1039/C8NJ06224B</p>
<p>Aqueous micellar solutions of surface active ionic liquids as eco-green solvents for electroreduction of halocarbons: A case study of dodecylmethylimidazolium chloride ...</p>	<p>PA Bhat, SA Pandit, MA Rather, MA Bhat</p>	<p>Chemistry</p>	<p>Journal of Molecular Liquids 289, 111129</p>	<p>2019</p>	<p>0167-7322</p>	<p>https://doi.org/10.1016/j.molliq.2019.111129</p>

<p>As catalytic as silver nanoparticles anchored to reduced graphene oxide: Fascinating activity of imidazolium based surface active ionic liquid for chemical degradation of ...</p>	<p>MA Rather, SA Bhat, SA Pandit, FA Bhat, GM Rather, MA Bhat</p>	<p>Chemistry</p>	<p>Catalysis Letters 149, 2195-2203</p>	<p>2019</p>	<p>1572879X</p>	<p>https://doi.org/10.1007/s10562-019-02798-4</p>
<p>Sulfonate... pyridinium supramolecular synthon: a robust interaction utilized to design molecular assemblies</p>	<p>AA Ganic, AA Ahangar, AA Dar</p>	<p>Chemistry</p>	<p>Crystal Growth & Design 19 (8), 4650-4660</p>	<p>2019</p>	<p>15287505</p>	<p>https://doi.org/10.1021/acs.cgd.9b00555</p>

Utility of bis-4-pyridines as supramolecular linkers for 5-sulfosalicylic acid centers: structural and optical investigations	AA Ganie, P Vishnoi, AA Dar	Chemistry	Crystal Growth & Design 19 (4), 2289-2297	2019	15287505	https://doi.org/10.1021/acs.cgd.8b01914
Synthesis, structural investigations and DNA cleavage properties of a new water soluble Cu (II)-iminodiacetate complex		Chemistry	Inorganic Chemistry Communications 106, 48-53	2019	1387-7003	https://doi.org/10.1016/j.inoche.2019.05.027
	I Yousuf, M Zeeshan, F Arjmand, MA Rizvi, S Tabassum					
Visible light-mediated [2+ 2] cycloaddition reactions of 1, 4-quinones and terminal alkynes	S Sultan, MS Bhat, MA Rizvi, BA Shah	Chemistry	The Journal of Organic Chemistry 84 (14), 8948-8958	2019	0022-3263	https://doi.org/10.1021/acs.joc.9b00855
Photoredox-Mediated Generation of gem-Difunctionalized Ketones: Synthesis of α,α -Aminothioketones	N Chalotra, MA Rizvi, BA Shah	Chemistry	Organic letters 21 (12), 4793-4797	2019		https://doi.org/10.1021/acs.orglett.9b01677
					1523-7060	
Exploring Bikaverin as Metal ion Biosensor: A Computational approach.	Z Hussain, HR Bhat, T Naqvi, MK Rana, MA Rizvi	Chemistry	Acta Chimica Slovenica 66 (2)	2019	1580-3155	https://doi.org/10.17344/acsi.2018.4843

Dielectric, magnetic and photocatalytic activity of PolyPyrrole/Prussian red nanocomposite for waste water treatment applications	MA Rizvi, SK Moosvi, T Jan, S Bashir, P Kumar, WD Roos, HC Swart	Chemistry	Polymer 163, 1-12	2019	2073-4360	https://doi.org/10.1016/j.polymer.2018.12.044
Abiotic Fluorescent Receptors for Bioimaging: Sensing of Nucleic Acids	MA KALOO, BA BHAT, SUL ISLAM, SMA RIZVI, QM JUNAID	Chemistry	Mater. Sci. Res. India 16 (3), 235-239	2019	2394-0565	https://doi.org/10.13005/msri/160306
M Ayoub, BA Bhat, SU Islam, SMA Rizvi, QM Junaid						
Effect of single and binary mixed surfactant impregnation on the adsorption capabilities of chitosan hydrogel beads toward rhodamine B	Suraya Jabeen, Mohd Sajid Lone, Saima Afzal, Pawandeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Chemistry	New Journal of Chemistry	2020	1369-9261	https://doi.org/10.1039/D0NJ02496A

Co-solubilization of polycyclic aromatic hydrocarbon mixtures in aqueous micellar systems and its correlation with FRET for enhanced remediation processes	Uzma Ashraf, Mohd Sajid Lone, Rohi Masrat, Rais Ahmad Shah, Saima Afzal, Oyais Ahmad Chat, Aijaz Ahmad Dar	Chemistry	Chemosphere	2020	1879-1298	https://doi.org/10.1016/j.chemosphere.2019.125160
Comparison between the interfacial and bulk rheology of sodium carboxymethylcellulose in the presence of cationic and non-ionic surfactants	Rohi Masrat, Rais Ahmad Shah, Mohd Sajid Lone, Uzma Ashraf, Saima Afzal, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Chemistry	Journal of Molecular Liquids	2020	0167-7322	https://doi.org/10.1016/j.molliq.2020.112477
Modulation of surface tension and rheological behavior of methyl cellulose–Amino acid based surfactant mixture by hydrophobic drug rifampicin: An insight into drug ...	Saima Afzal, Mohd Sajid Lone, Masrat Maswal, Aijaz Ahmad Dar	Chemistry	Journal of Molecular Liquids	2020	0167-7322	https://doi.org/10.1016/j.molliq.2020.114353s

Chemical Composition, Antioxidant and Cytotoxic Activity of Artemisia gmelinii Essential Oil Growing Wild in Kashmir Valley	MahparaQadir, Antim Kumar Maurya, Ajaz Ahmad Waza, Vijai Kant Agnihotri, and Wajaht A. Shah	Chemistry	Natural Product Research	2020	1478-6419	https://doi.org/10.1080/14786419.2018.1557178
Eureka Moment: An Archimedean Alternative for the Determination of cmc of Surfactants via Weight Measurements	MS Khan, AA Wani, T Ismail, SA Bhat, FA Sofi, MA Bhat	Chemistry	ACS omega 5 (49), 31640-31643	2020	2470-1343	https://doi.org/10.1021/acsomega.0c04029
Highly efficient catalytic reductive degradation of Rhodamine-B over Palladium-reduced graphene oxide nanocomposite	SA Bhat, N Rashid, MA Rather, SA Bhat, PP Ingole, MA Bhat	Chemistry	Chemical Physics Letters 754, 137724	2020	92614	https://doi.org/10.1016/j.cplett.2020.137724

Structural-functional integrity of lysozyme in imidazolium based surface active ionic liquids	MA Rather, TA Dar, LR Singh, GM Rather, MA Bhat	Chemistry	International journal of biological macromolecules 156, 271-279	2020	1418130	https://doi.org/10.1016/j.ijbiomac.2020.04.033
Unprecedented lower overpotential for CO2 electro-reduction on copper oxide anchored to graphene oxide microstructures	N Rashid, MA Bhat, A Das, PP Ingole	Chemistry	Journal of CO2 Utilization 39, 101178	2020	22129820	https://doi.org/10.1016/j.jcou.2020.101178
Au-nanoparticle loaded nickel-copper bimetallic MOF: An excellent catalyst for chemical degradation of Rhodamine B	S Nabi, FA Sofi, N Rashid, PP Ingole, MA Bhat	Chemistry	Inorganic Chemistry Communications 117, 107949	2020	13877003	https://doi.org/10.1016/j.inoche.2020.107949

<p>Dendritic copper microstructured electrodeposits for efficient and selective electrochemical reduction of carbon dioxide into C1 and C2 hydrocarbons</p>	<p>N Rashid, MA Bhat, PP Ingole</p>	<p>Chemistry</p>	<p>Journal of CO2 Utilization 38, 385-397</p>	<p>2020</p>	<p>22129820</p>	<p>https://doi.org/10.1016/j.jcou.2020.02.017</p>
<p>Vitamin B12 functionalized N-doped graphene: a promising electro-catalyst For hydrogen evolution and electro-oxidative sensing of H2O2</p>	<p>SA Bhat, N Rashid, MA Rather, SA Pandit, PP Ingole, MA Bhat</p>	<p>Chemistry</p>	<p>Electrochimica Acta 337, 135730</p>	<p>2020</p>	<p>0013-4686</p>	<p>https://doi.org/10.1016/j.electacta.2020.135730</p>

<p>Mechanistic insight into the electrocatalytic performance of reduced graphene oxide supported palladium, silver and palladium–silver nanodeposits toward electrodehalogenation ...</p>	<p>SA Pandit, SA Bhat, MA Rather, PP Ingole, MA Bhat</p>	<p>Chemistry</p>	<p>Physical Chemistry Chemical Physics 22 (29), 16985-16997</p>	<p>2020</p>	<p>14639084</p>	<p>https://doi.org/10.1039/D0CP01932A</p>
<p>Electrochemical reduction of CO₂ to ethylene on Cu/Cu x O-GO composites in aqueous solution</p>	<p>N Rashid, MA Bhat, UK Goutam, PP Ingole</p>	<p>Chemistry</p>	<p>RSC advances 10 (30), 17572-17581</p>	<p>2020</p>	<p>2046-2069</p>	<p>https://doi.org/10.1039/D0RA02754E</p>

Transforming micelles into mixed micelles: a promising approach to tune the catalytic performance of imidazolium-based surface active ionic liquids toward degradation of ...	Fayaz Ahmed Butt, Parvaiz Ahmad Bhat, Sajad Ahmad Bhat, Nusrat Rashid, Mudasir Ahmad Rather, Sarwar Ahmad Pandit, Pravin P Ingole, Ghulam Mohammad Rather, Mohsin Ahmad Bhat	Chemistry	Physical Chemistry Chemical Physics 22 (20), 11337-11347	2020	14639084	https://doi.org/10.1039/C9CP07040K
Achievement of enhanced solubility and improved optics in molecular complexes based on a sulfonate-pyridinium supramolecular synthon	I Ahmad, AA Ganie, AA Dar	Chemistry	CrystEngComm 22 (23), 3933-3942	2020	1466-8033	https://doi.org/10.1039/D0CE00346H
Irreversible Thermochromism in organic salts of sulfonated Anils	AA Dar, AA Ganie	Chemistry	Crystal Growth & Design 20 (6), 3888-3897	2020	15287505	https://doi.org/10.1021/acs.cgd.0c00188

Complexation Modulated Iron Redox Systems for Waste Water Treatment: A Natural Attenuation Model	S Bashir, SM Banday, M Mustafa, MA Rizvi	Chemistry	ChemistrySelect 5 (35), 10945-10952	2020	2365-6549	https://doi.org/10.1002/slct.202002241
Photoredox-mediated synthesis of functionalized sulfoxides from terminal alkynes	J Kumar, A Ahmad, MA Rizvi, MA Ganie, C Khajuria, BA Shah	Chemistry	Organic Letters 22 (14), 5661-5665	2020	1523-7060	https://doi.org/10.1021/acs.orglett.0c02055
Development of polythiophene/prussian red nanocomposite with dielectric, photocatalytic and metal scavenging properties	S Bashir, SK Moosvi, T Jan, G Rydzek, SH Mir, MA Rizvi	Chemistry	Journal of Electronic Materials 49, 4018-4027	2020	0361-5235	https://doi.org/10.1007/s11664-020-08117-7
Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles	P Kumar, A Kumar, MA Rizvi, SK Moosvi, V Krishnan, MM Duvenhage, WD Roos, HC Swart	Chemistry	Applied Surface Science 514, 145930	2020	0169-4332	• https://doi.org/10.1016/j.apsusc.2020.145930

Photo-oxidation Coupled Kabachnik–Fields and Bigenelli reactions for Direct Conversion of Benzyl alcohols to α -Aminophosphonates and Dihydropyrimidones	G Ali, NA Dangroo, S Raheem, T Naqvi, T Ara, MA Rizvi	Chemistry	Acta Chim. Slov 67 (1), 195-202	2020	1580-3155	<ul style="list-style-type: none"> https://doi.org/10.17344/acsi.2019.5348
Acta Chim. Slov 67 (1), 195-202						
Bioactive supra decorated thiazolidine-4-carboxylic acid derivatives attenuate cellular oxidative stress by enhancing catalase activity	MA Rizvi, Z Hussain, F Ali, A Amin, SH Mir, G Rydzek, RM Jagtap, S K Pardeshi, R A Qadri, K Ariga	Chemistry	Physical Chemistry Chemical Physics 22 (15), 7942-7951	2020	1463-9084	https://doi.org/10.1039/D0CP00253D
Solubility of organic compounds in scCO ₂	NUD Reshi, MA Rizvi, SK Moosvi, M Ahmad, A Gani,	Chemistry	Green Sustainable Process for Chemical and Environmental Engineering and Science, 379-411	2020	9.78013E+12	https://doi.org/10.1016/B978-0-12-817388-6.00016-7

Metal–ligand-based thixotropic self-healing poly (vinyl alcohol) metallohydrogels: Their application in pH-responsive drug release and selective adsorption of dyes	Saima Afzal, Mohd Sajid Lone, AA Dar	Chemistry	Journal of Materials Research	2021	2044-5326.	https://doi.org/10.1557/s43578-021-00361-9
Exclusive behaviour of asymmetric zwitterionic gemini surfactants towards lysozyme	Imtiyaz Ahmad Bhat, Tasneem Kausar, Aijaz Ahmad Dar, Shahid M Nayeem, Mohd Akram	Chemistry	Journal of Molecular Liquids	2021	1873-3166	https://doi.org/10.1016/j.colsurfa.2021.127223
Synergistic effect of various metal ions on the mechanical, thixotropic, self-healing, swelling and water retention properties of bimetallic hydrogels of alginate	A Shaheen, Aijaz Ahmad Dar	Chemistry	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2021	1873-4359	https://doi.org/10.1016/j.molliq.2021.116583

Modulation of the interaction between sodium alginate and Cl ₆ BzCl by the ions from sodium chloride and sodium salicylate: an insight into the hydrophobic salt ...	Suraya Jabeen, Mohd Sajid Lone, Saima Afzal, Pawandeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Chemistry	Colloid and Polymer Science	2021	1435-1536	https://doi.org/10.1007/s00396-021-04841-6
Emission Color Tuning and White Light Generation from a Trimolecular Cocktail in Cationic Micellar System with Promising Applicability in the Anticounterfeiting Technology	Firdaus Ahmad Ahanger, Nighat Nazir, Mohd Sajid Lone, Saima Afzal, Aijaz Ahmad Dar	Chemistry	Langmuir	2021	1520-5827	https://doi.org/10.1007/s00396-021-04841-6
pH Changes in the Micelle–Water Interface of Surface-Active Ionic Liquids Dictate the Stability of Encapsulated Curcumin: An Insight Through a Unique Interfacial Reaction ...	S Afzal, M.S Lone, N Nazir, AA Dar	Chemistry	ACS OMEGA	2021	1520-5827	https://doi.org/10.1021/acsomega.1c01119

Structural changes in trypsin induced by the bile salts: An effect of amphiphile hydrophobicity	Muzaffar Hussain Najar, Oyais Ahmad Chat, Parvaiz Ahmad Bhat, Mohammad Amin Mir, Ghulam Mohamamd Rather, Aijaz Ahmad Dar	Chemistry	International journal of biological macromolecules	2021	1879-0003	https://doi.org/10.1016/j.ijbiomac.2021.03.041
Temperature- and Composition-Induced Multiarchitectural Transitions in the Catanionic System of a Conventional Surfactant and a Surface-Active Ionic Liquid	Mohd Sajid Lone, Saima Afzal, Oyais Ahmad Chat, Vinod Kumar Aswal, Aijaz Ahmad Dar	Chemistry	ACS OMEGA	2021	2470-1343.	https://doi.org/10.1021/acsomega.1c00469
Exploiting self-assembled soft systems based on surfactants, biopolymers and their mixtures for inhibition of Citral degradation under harsh acidic Conditions	Parvaiz Ahmad Bhat, Nighat Nazir, Oyais Ahmad Chat, Aijaz Ahmad Dar	Chemistry	Food Chemistry	2021	1873-7072	https://doi.org/10.1016/j.foodchem.2020.128168

Energy transduction through FRET in self-assembled soft nanostructures based on surfactants/polymers: current scenario and prospects	Mohd Sajid Lone, Parvaiz Ahmad Bhat, Saima Afzal, Oyais Ahmad Chat, Aijaz Ahmad Dar	Chemistry	Soft Matter	2021	1744-6848	https://doi.org/10.1039/D0SM01625J
Effect of single and binary mixed surfactant impregnation on the adsorption capabilities of chitosan hydrogel beads toward rhodamine B	Suraya Jabeen, Mohd Sajid Lone, Saima Afzal, Pawandeep Kour, Arjumund Shaheen, Firdaus Ahmad Ahanger, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Chemistry	New Journal of Chemistry	2021	1369-9261	https://doi.org/10.1039/D0NJ02496A
Volatile Composition, Antibacterial and Antioxidant Activities of Artemisia tournefortiana Reichb. From Kashmir India.	Mahpara Qadir, Antim Maurya, Vijai Kant Agnihotri and Wajaht A. Shah	Chemistry	Natural Product Research	2021	1478-6419	DOI: 10.1080/14786419.2019.161399

<p>A Metal-free visible light promoted three component facile synthesis of 4-oxo-tetrahydroindoles in ethanol-water.</p>	<p>Khursheed Ansari, MohdNazeef, Shabir Ali, Malik A. Waseem, SaifAnsari, Wajaht Amin Shah, I. R. Siddiqui and Jagdambasingh</p>	<p>Chemistry</p>	<p>Journal of heterocyclic chemistry</p>	<p>2021</p>	<p>1943-5193</p>	<p>DOI:10.1002/jhet.4202</p>
<p>Synthesis, surface activity, self-aggregation and cytotoxicity of ruthenium (II) and Oxovanadium (IV) based metallo-surfactants</p>	<p>R Jan, MS Khan, N Hassan, U Mushtaq, FA Khanday, MA Bhat</p>	<p>Chemistry</p>	<p>Journal of Molecular Liquids 331, 115696</p>	<p>2021</p>	<p>0167-7322</p>	<p>https://doi.org/10.1016/j.molliq.2021.115696</p>
<p>Aqueous micellar solutions of Imidazolium based surface active ionic liquids: Promising solvent systems to boost the electrocatalytic performance of Vitamin B12 toward eco ...</p>	<p>SA Pandit, SA Bhat, PP Ingole, MA Bhat</p>	<p>Chemistry</p>	<p>Electrochimica Acta 369, 137655</p>	<p>2021</p>	<p>0013-4686</p>	<p>https://doi.org/10.1016/j.electacta.2020.137655</p>

Surface active ionic liquid assisted metal-free electrocatalytic-carboxylation in aqueous phase: a sustainable approach for CO ₂ utilization paired with electro-detoxification ...	Sarwar Ahmad Pandit, Sajad Ahmad Bhat, Mudasir Ahmad Rather, Feroz Ahmad Sofi, Pravin P Ingole, Zahid Manzoor Bhat, Musthafa Ottakam Thotiyl, Khursheed Ahmad Bhat, Shakeel U Rehman, Mohsin Ahmad Bhat	Chemistry	Green Chemistry 23 (24), 9992-10005	2021	14639262	https://doi.org/10.1039/D1GC03412J
Nano-spinel cobalt decorated sulphur doped graphene: an efficient and durable electrocatalyst for oxygen evolution reaction and non-enzymatic sensing of H ₂ O ₂	AA Wani, MM Bhat, FA Sofi, SA Bhat, PP Ingole, N Rashid, MA Bhat	Chemistry	New Journal of Chemistry 45 (34), 15544-15554	2021	11440546	https://doi.org/10.1039/D1NJ02383G
Water Switched Reversible Thermochromism in Organic Salt of Sulfonated Anil	AA Ganie, AA Dar	Chemistry	Crystal Growth & Design 21 (5), 3014-3023	2021	15287505	

						https://doi.org/10.1021/acs.cgd.1c00189
Validation of the supramolecular synthon preference through DFT and physicochemical property investigations of pyridyl salts of organo-sulfonates	Arshid A Ganie, Thufail M Ismail, PK Sajith, Aijaz A Dar	Chemistry	New Journal of Chemistry 45 (10), 4780-4790	2021	1369-9261	https://doi.org/10.1039/D0NJ05485B
Organic co-crystal semiconductors: a crystal engineering perspective	AA Dar, S Rashid	Chemistry	CrystEngComm 23 (46), 8007-8026	2021	1418130	https://doi.org/10.1039/D0NJ05485B
Visible-light-promoted oxidative annulation of naphthols and alkynes: Synthesis of functionalized naphthofurans	N Chalotra, IH Shah, S Raheem, MA Rizvi, BA Shah	Chemistry	The Journal of Organic Chemistry 86 (23), 16770-16784	2021	0022-3263	https://doi.org/10.1021/acs.joc.1c01992

A photosensitized metal free approach to α -ketoamides: sequential oxidative amidationdiketonization of terminal alkynes	FM Manhas, S Raheem, J Kumar, P Thakur, MA Rizvi	Chemistry	ChemistrySelect 6 (29), 7499-7504	2021	2365-6549	https://doi.org/10.1002/slct.202101511
CO2 Attenuation: Electrochemical Methods and Perspectives	A Hanif, BM Pirzada, R Farooq, GM Peerzada, MA Rizvi	Chemistry	Journal of The Electrochemical Society 168 (5), 056515	2021	1945-7111	DOI 10.1149/1945-7111/abfcda
Exploring supramolecular aggregation behaviour of bioactive thiazolidine-4-carboxylic acid derivatives	RM Jagtap, SK Pardeshi, A Nabi, Z Hussain, SH Mir, MA Rizvi	Chemistry	Microsystem Technologies 27, 1133-1143	2021	9467076	https://doi.org/10.1007/s00542-018-4125-6

<p>Physicochemical studies of synthesized biscoumarin[3,3-(phenylmethylene)bis(4-hydroxy-2H-chromen-2-one)] in DMSO and various percentage compositions of ethanol in DMSO from 288 ...</p>	<p>Richu, Zainab Amin, S Muzaffar Banda y, Poonam Rajput, MA Rizvi, ...</p>	<p>Chemistry</p>	<p>journal of molecular liquids 333, 15891-15902</p>	<p>2021</p>	<p>0167-7322</p>	<p>DOI: 10.1016/j.molliq.2021.115891</p>
<p>A Switching-Type Positive Temperature Coefficient Behavior Exhibited by PPy/(PhSe)₂ Nanocomposite Prepared by Chemical Oxidative Polymerization</p>	<p>T Jan, M Ahmad Rizvi, SK Moosvi, MH Najar, S Husain Mir, GM Peerzada</p>	<p>Chemistry</p>	<p>ACS omega 6 (11), 7413-7421</p>	<p>2021</p>	<p>24701343</p>	<p>https://doi.org/10.1021/acsomega.0c05799</p>

Photoredox-Mediated Synthesis of β -Hydroxydithioacetals from Terminal Alkynes	F Manzer Manhas, J Kumar, S Raheem, P Thakur, MA Rizvi, BA Shah	Chemistry	ChemPhotoChem 5 (3), 235-239	2021	23670932	https://doi.org/10.1002/cptc.202000237
Organoselenium compounds as acetylcholinesterase inhibitors: Evidence and mechanism of mixed inhibition	A Kumawat, S Raheem, F Ali, TA Dar, S Chakrabarty, MA Rizvi	Chemistry	The Journal of Physical Chemistry B 125 (6), 1531- 1541	2021	1520-5207	https://doi.org/10.1021/acs.jpcc.0c08111
Organoselenium compounds as acetylcholinesterase inhibitors: Evidence and mechanism of mixed inhibition	A Kumawat, S Raheem, F Ali, TA Dar, S Chakrabarty, MA Rizvi	Chemistry	The Journal of Physical Chemistry B 125 (6), 1531- 1541	2021	1520-5207	https://doi.org/10.1021/acs.jpcc.0c08111

In vitro and in silico evaluation of structurally diverse benzyl-pyrrolidine-3-ol analogues as apoptotic agents via caspase activation	T Naqvi, A Amin, S Ali, MY Lone, N Bashir, SU Khan, TT Htar, MA Rizvi	Chemistry	Acta Chimica Slovenica 68 (3), 667-682	2021	1318-0207	10.17344/acsi.2021.6684
Micellization and gelation characteristics of Pluronic P123 and single ester-bonded cleavable cationic gemini surfactant: A potential system for solubilization and release of ...	Hina Kouser Qadri, Arjumund Shaheen, Showkat Rashid, Imtiyaz Ahmad Bhat, Ghulam Mohammad Rather, Aijaz Ahmad Dar	Chemistry	Journal of Molecular Liquids	2022	0167-7322	https://doi.org/10.1016/j.molliq.2022.120311
Chitosan Hydrogels with Embedded Thermo-and pH-Responsive Microgels as a Potential Carrier for Controlled Release of Drugs	Pawandeep Kour, Saima Afzal, Adil Gani, Mohammed Iqbal Zargar, Umar Nabi Tak, Showkat Rashid, Aijaz Ahmad Dar	Chemistry	Food Chemistry	2022	0308-8146	https://doi.org/10.1016/j.foodchem.2021.131925

Surfactant and Polymer-Based Self-Assemblies for Encapsulation, Protection, and Release of Nutraceuticals	Saima Afzal, Mohd Sajid Lone, Pawandeep Kaur, Firdous Ahmad Ahanger, Nighat Nazir, Aijaz Ahmad Dar	Chemistry	Handbook of nutraceuticals and natural products: biological, medicinal, and nutritional properties and applications	2022		
Micelle-guided Morita–Baylis–Hillman reaction of ketones in water	Mohmad Muzafar Wani, Aijaz Ahmad Dar, Bilal A Bhat	Chemistry	Organic & Biomolecular Chemistry	2022	1477-0539	https://doi.org/10.1039/D2OB00638C
PEG-400 catalyzed N-C, O-C & C-S bond formations: A robust sonication promoted synthesis of benzo[d]oxazole-2 (3H)-thione&benzo[d]thiazole2(3H)- thione hybrids.	Aadil Yaseen , M A Waseem , MahaparaQadir , ShariqahHijazi , Parvaiz A Dar , Mir AshiqHussain , &Wajahat Amin Shah.	Chemistry	Analytical chemistry letters	2022	22297928	https://doi.org/10.1080/22297928.2022.2068376
.Selective and efficient synthesis of 1,5-benzodiazepin-2-one and Amino chromenes as biologically versatile scaffolds.	MahparaQadir, Aadil Yseen, AntimMaurya, Vijai Kant Agnihotri and Wajaht A. Shah.	Chistryem		2022	22297928	https://doi.org/10.1080/22297928.2021.2019612
			Analytical chemistry letters			

Isolation, characterization, antifungal activity validated UPLC/MS/MS method for quantification of novel compound from <i>Artemisia tournefortianareichb</i>	Mahpara Qadir, Nisar Ahmad Dangroo, Vijai Kant Agnihotri and Wajaht A. Shah	Chemistry	Natural product Research	2022	1478-6419	DOI:10.1080/14786419.2021.1915310
Isolation and Characterization of Flavonoid Naringenin and Evaluation of Cytotoxic and Biological Efficacy of Water Lilly (<i>Nymphaea mexicana</i> Zucc.).	Din, S.; Hamid, S.; Yaseen, A.; Yattoo, A.M.; Ali, S.; Shamim, K.; Mahdi, W.A.; Alshehri, S.; Rehman, M.U.; Shah, W.A	Chemistry	Plants	2022	2223-7747	https://doi.org/10.3390/plants11243588
Enhanced Multifunctional Electrocatalytic Activity of Pt-Co Nanoalloy-Decorated Graphene Oxide Sheets through Strong Metal-Support Interaction	S Jha, N Hassan, MA Bhat, PP Ingole	Chemistry	Energy & Fuels 36 (24), 15055-15065	2022	0887-0624	https://doi.org/10.1021/acs.energyfuels.2c02566

<p>Imidazolium Based Surface Active Ionic Liquids: Promising Boosters to Enhance the Radical Scavenging and Antioxidant Activity of Conventional Surfactant Solubilised Quercetin</p>	<p>Fayaz Ahmad Butt, Murtaza Manzoor Bhat, Umar Rashid, Imtiyaz Ahmad Lone, Parvaiz Ahmad Bhat, Sajad Ahmad Bhat, Mudasir Ahmad Rather, Ghulam Mohammad Rather, Mohsin Ahmad Bhat</p>	<p>Chemistry</p>	<p>Catalysis Letters, 1-10</p>	<p>2022</p>	<p>1572879X</p>	<p>https://doi.org/10.1007/s10562-021-03738-x</p>
<p>Synthesis of Novel One-Walled meso-Phenylboronic Acid-Functionalized Calix[4]pyrrole: A Highly Sensitive Electrochemical Sensor for Dopamine</p>	<p>IA Rather, FA Sofi, MA Bhat, R Ali</p>	<p>Chemistry</p>	<p>ACS omega 7 (17), 15082-15089</p>	<p>2022</p>	<p>2470-1343</p>	<p>https://doi.org/10.1021/acsomega.2c00926</p>

N-doped reduced Graphene Oxide Supported PtAg Alloys as Efficient Electrocatalysts for Urea Electrooxidation Reaction	I Amin, SA Bhat, MM Bhat, FA Sofi, AY Bhat, P Ingole, R Mondal, Musthafa Ottakam Thotiyl, Mohsin Ahmad Bhat	Chemistry	New Journal of Chemistry	2023	11440546	
						https://doi.org/10.1039/D3NJ04229D
Enhanced Multifunctional Electrocatalytic Activity of Pt-Co Nanoalloy-Decorated Graphene Oxide Sheets through Strong Metal-Support Interaction	S Jha, N Hassan, MA Bhat, PP Ingole	Chemistry	Energy & Fuels 36 (24), 15055-15065	2022	0887-0624	https://doi.org/10.1021/acs.energyfuels.2c02566
Imidazolium Based Surface Active Ionic Liquids: Promising Boosters to Enhance the Radical Scavenging and Antioxidant Activity of Conventional Surfactant Solubilised Quercetin	Fayaz Ahmad Butt, Murtaza Manzoor Bhat, Umar Rashid, Imtiyaz Ahmad Lone, Parvaiz Ahmad Bhat, Sajad Ahmad Bhat, Mudasir Ahmad Rather, Ghulam Mohammad Rather, Mohsin Ahmad Bhat	Chemistry	Catalysis Letters, 1-10	2022	1572879X	https://doi.org/10.1007/s10562-021-03738-x

<p>Synthesis of Novel One-Walled meso-Phenylboronic Acid-Functionalized Calix[4]pyrrole: A Highly Sensitive Electrochemical Sensor for Dopamine</p>	<p>IA Rather, FA Sofi, MA Bhat, R Ali</p>	<p>Chemistry</p>	<p>ACS omega 7 (17), 15082-15089</p>	<p>2022</p>	<p>2470-1343</p>	<p>https://doi.org/10.1021/acsomega.2c00926</p>
<p>CsPbBr₃ perovskite nanoplatelets: Excellent probes for spectrofluorimetric sensing of chloride and arsenite</p>	<p>Q Jan, S Nabi, FA Sofi, MA Bhat</p>	<p>Chemistry</p>	<p>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 270, 120749</p>	<p>2022</p>	<p>13861425</p>	<p>https://doi.org/10.1016/j.saa.2021.120749</p>

Metal–organic framework functionalized sulphur doped graphene: a promising platform for selective and sensitive electrochemical sensing of acetaminophen, dopamine and H ₂ O ₂	S Nabi, FA Sofi, N Rashid, PP Ingole, MA Bhat	Chemistry	New Journal of Chemistry 46 (4), 1588-1600	2022	11440546	https://doi.org/10.1039/D1NJ04041C
Unravelling the chemistry of catalyst surfaces and solvents towards C–C bond formation through activation and electrochemical conversion of CO ₂ into hydrocarbons over micro ...	N Rashid, MA Bhat, PP Ingole	Chemistry	Sustainable Energy & Fuels 6 (1), 128-142	2022	2398-4902	https://doi.org/10.1039/D1SE01255J
Multi-Stimuli-Responsive Organo-Sulfonated Anil and Its Organic Complex	I Ahmad, AA Malik, AA Dar	Chemistry	Crystal Growth & Design 22 (11), 6483-6492	2022	15287505	https://doi.org/10.1021/acs.cgd.2c00693

Molecular salts of the isoniazid derivatives. Expanding the scope of sulfonate-pyridinium synthon to design materials	AA Ganie, R Marimuthu, ST Islam, S Narang, AA Dar	Chemistry	Journal of Solid State Chemistry 307, 122762	2022	224596	https://doi.org/10.1016/j.jssc.2021.122762
Expanding the scope of hydroxyl-pyridine supramolecular synthon to design molecular solids	AA Ganie, S Rashid, AA Ahangar, TM Ismail, PK Sajith, AA Dar	Chemistry	Crystal Growth & Design 22 (3), 1972-1983	2022	15287505	https://doi.org/10.1021/acs.cgd.2c00006
Influence of halogen substitution on crystal packing, molecular properties and electrochemical sensing	AA Ahangar, R Elancheran, AA Dar	Chemistry	Journal of Solid State Chemistry 314, 123382	2022	224596	https://doi.org/10.1016/j.jssc.2022.123382
Optimal energy management in a microgrid under uncertainties using novel hybrid metaheuristic algorithm	M Rizvi, B Pratap, SB Singh	Chemistry	Sustainable Computing: Informatics and Systems 36, 100819	2022	2210-5379	

Single Crystal X-Ray Structures and Anticancer Activity Studies on Thiazolidine Derivatives	MAR, R .M.Jagtap, Sachin S.Sakate, Satish K. Pardeshi	Chemistry	Advances in Chemistry Research. 76	2022		https://doi.org/10.52305/KSNB2027
Synthesis, Antioxidant and Antibacterial Properties of Thiazolidine-4-Carboxylic Acid Derivatives	MAR Rohidas Jagtap, Sachin Sakate, Satish Pardeshi	Chemistry	Advances in Chemistry Research 76	2022		https://doi.org/10.52305/BSLQ8680
Nature-Based Computing Bioinformatics Approaches in Drug Discovery Against Promising Molecular Targets Carbonic Anhydrases and Serine/Threonine Kinases for Cancer Treatment	MN Peerzada, MA Rizvi, AK KK, A Sahu, S Verma	Chemistry	Nature-Inspired Intelligent Computing Techniques in Bioinformatics ,309-328	2022		https://doi.org/10.1007/978-981-19-6379-716
Photoredox-Promoted Selective Synthesis of C-5 Thiolated 2-Aminothiazoles from Terminal Alkynes	MA Ganie, MS Bhat, MA Rizvi, S Raheem, BA Shah	Chemistry	Organic Letters 24 (42), 7757-7762	2022	1523-7060	https://doi.org/10.1021/acs.orglett.2c03064
Hybrid Polymer Composite of Prussian Red Doped	M Mustafa, S Bashir, SK	Chemistry	Acta Chimica Slovenica 69 (4)	2022	1580-3155	https://doi.org/10.17344/acsi.2022.7601

Polythiophene for Adsorptive Wastewater Treatment Application.	Moosvi, M Najar, MH Masoodi, MA Rizvi					
Photoredox Catalyzed Thioformylation of Terminal Alkynes Using Nitromethane as a Formyl Source	MS Bhat, MA Ganie, MA Rizvi, S Raheem, BA Shah	Chemistry	Organic Letters 24 (36), 6658-6663	2022	1523-7060	https://doi.org/10.1021/acs.orglett.2c02695
Diphenyldiselenide modulated charge transport dynamics, impedance spectroscopy and temperature sensing behaviour of polythiophene	T Jan, SK Moosvi, MH Najar, GM Peerzada, MA Rizvi	Chemistry	Journal of Materials Science: Materials in Electronics 33 (10), 8179-8192	2022	0957-4522	https://doi.org/10.1007/s10854-022-07969-5
Multidimensional role of silicon to activate resilient plant growth and to mitigate abiotic stress	RA Mir, BA Bhat, H Yousuf, ST Islam, A Raza, MA Rizvi, S Charagh, M Albaqami, P A Sofi, S M Zargar	Chemistry	Frontiers in plant science 13, 819658	2022	1664-462X	https://doi.org/10.3389/fpls.2022.819658

Visible-Light-Mediated Synthesis of α -Halomethyl Ketones from Terminal Alkynes	IH Shah, S Kumar, J Kumar, S Raheem, MA Rizvi, BA Shah	Chemistry	ChemPhotoChem 6 (3), e202100231	2022	23670932	https://doi.org/10.1002/cptc.202100231
Computational studies to identify potential inhibitors targeting the DPPE1 protein in Mycobacterium tuberculosis	BA Sheikh, BA Bhat, MA Rizvi, Z Ahmad, A Almilaibary, M Alkhanani,	Chemistry	International Journal of Pharmaceutical Investigation 13 (1), 129-138	2022	2230-9713	https://doi.org/10.5530/jscires.11.2.1
Synthesis of (E)- β -Iodovinyl Sulfones via Photoredox Catalyzed Difunctionalization of Terminal Alkynes	S Kumar, J Kumar, T Naqvi, S Raheem, MA Rizvi, BA Shah	Chemistry	ChemPhotoChem 6, 10,e202200110	2022	23670932	https://doi.org/10.1002/cptc.202200110

Magnetic, Electrical and Humidity Sensing Properties of Multiferroic GdCrO ₃ Nanoparticles Fabricated by Metal Organic Precursor Method	Irfan H. Lone, Huma Khan, Irshad A. Wani, Arvind Kumar Jain, Tokeer Ahmad	Chemistry	ChemistrySelect	2022	2365-6549	https://doi.org/10.1002/slct.202202547
Metal–Organic Precursor Synthesis, Structural Characterization, and Multiferroic Properties of GdFeO ₃ Nanoparticles	Irfan H. Lone, Huma Khan, Arvind K. Jain, Jahangeer Ahmed, Kandalam V. Ramanujachary Kandalam V. Ramanujachary Department of Chemistry and Biochemistry, Rowan University, Glassboro, New Jersey 08028, United States More by Kandalam V. Ramanujachary, , and Tokeer Ahmad	Chemistry	ACS Omega	2022	2470-1343	https://doi.org/10.1021/acsomega.2c02809
Synthesis of 1, 2-oxazetidines with a free–NH group via photoredox catalysis	MA Ganie, MA Rizvi, S Raheem, BA Shah	Chemistry	Chemical Communications 58 (61), 8508-8511	2022	1359-7345	https://doi.org/10.1039/D2CC02892A
Visible light-mediated synthesis of α -alkoxy/hydroxy diarylacetaldehydes from terminal alkynes	J Kumar, A Ahmed, S Kumar, S	Chemistry	New Journal of Chemistry 46 (22), 10967-10973s	2022	1369-9261	https://doi.org/10.1039/D2NJ01614A

	Raheem, MA Rizvi, BA Shah					
Micellar catalysis: Polymer bound palladium catalyst for carbon-carbon coupling reactions in water	Mani Sengoden, Gulzar A Bhat, Ryan J Rutledge, Showkat Rashid, Aijaz A Dar, Donald J Darensbourg	Chemistry	Proceedings of the National Academy of Sciences 2023	2023	1091-6490.	https://doi.org/10.1073/pnas.2312907120
Effect of in situ mixed micellization of ester-functionalized gemini surfactant at different pHs on solubilization and cosolubilization of various polycyclic aromatic ...	Showkat Rashid, Umar Nabi Tak, Mohd Sajid Lone, Oyais Ahmad Chat, Parvaiz Ahmad Bhat, Firdaus Ahmad Ahanger, Imtiyaz Ahmad Bhat, Aijaz Ahmad Dar	Chemistry	Environmental Pollution	2023	1873-6424	https://doi.org/10.1016/j.envpol.2023.122489

Effect of interfacially-engineered nanoemulsions of linoleic acid stabilized by mixed surfactant systems and curcumin on their physicochemical properties, induction times and ...	Pawandeep Kour, Aijaz Ahmad Dar	Chemistry	Journal of Molecular Liquids	2023	0167-7322	https://doi.org/10.1016/j.molliq.2023.122243
Revisiting the BODIPY-borane dyad for the design of efficient aqueous phase molecular probes for anion recognition: A DFT/TD-DFT study	Haamid Rasool Bhat, Aijaz Ahmad Dar	Chemistry	Journal of Photochemistry and Photobiology A: Chemistry	2023	1873-2666	https://doi.org/10.1016/j.jphotochem.2023.114603
Interracially Modified Hybrid Nanoemulsion-Based Alginate Capsules: A Novel Food Grade System with Enhanced Oxidative Stability of Linoleic Acid with a Potential Antioxidant ...	Pawandeep Kour, Aijaz Ahmad Dar	Chemistry	ACS Food Science & Technology	2023	2692-1944	https://doi.org/10.1021/acsfoodscitech.3c00032

Rheological, morphological and swelling properties of dysprosium-based composite hydrogel beads of alginate and chitosan: A promising material for the effective cationic and ...	Sohail Amin Malik, Aijaz Ahmad Dar, Javid Ahmad Banday	Chemistry	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2023	1873-4359	https://doi.org/10.1016/j.colsurfa.2023.131046
Bergenia stracheyi extract-based hybrid hydrogels of biocompatible polymers with good adhesive, stretching, swelling, self-healing, antibacterial, and antioxidant properties	Umar Nabi Tak, Showkat Rashid, Pawandeep Kour, Nighat Nazir, Mohammed Iqbal Zargar, Aijaz Ahmad Dar	Chemistry	International Journal of Biological Macromolecules	2023	1879-0003	https://doi.org/10.1016/j.ijbiomac.2023.123718
Sensing cyclosarin (a chemical warfare agent) by Cucurbit [n] urils: A DFT/TD-DFT study	Haamid Rasool Bhat, Malay Kumar Rana, Aijaz Ahmad Dar	Chemistry	Journal of Molecular Structure	2023	1872-8014	https://doi.org/10.1016/j.molstruc.2022.134163
Interaction of HPC with CTAB and Tween 40 at Water/Air and Water/Soya Oil Interfaces	Rohi Masrat, Aijaz Ahmad Dar	Chemistry	Langmuir	2023	1520-5827	https://doi.org/10.1021/acs.langmuir.2c02902

<p>A composite polyvinyl alcohol–medicinal plant extract crosslinked hydrogel: a novel soft system with excellent rhodamine B adsorption and significant antifungal activity</p>	<p>Umar Nabi Tak, Showkat Rashid, Firdaus Ahmad Ahangar, Pawandeep Kour, Arjumund Shaheen, Saima Sidiq, Ayaz Ahmad Manhas, Nighat Nazir, Aijaz Ahmad Dar</p>	<p>Chemistry</p>	<p>New Journal of Chemistry</p>	<p>2023</p>	<p>1369-9261</p>	<p>https://doi.org/10.1039/D3NJ02229C</p>
<p>Luminescent and self-healing hybrid ionotropic hydrogel beads of ammonium metavanadate and chitosan: promising biomaterial as an antimicrobial agent, efficient dye adsorbent ...</p>	<p>Arjumund Shaheen, Mohammed Iqbal Zargar, Aijaz Ahmad Dar</p>	<p>Chemistry</p>	<p>Soft Matter</p>	<p>2023</p>	<p>1744-6848</p>	<p>https://doi.org/10.1039/D2SM01639G</p>
<p>Synthesis, optical studies and DFT analysis of benzo[b][1,4]oxazepines and thiazepines: A promising fluorescent probe for sensing of picric acid</p>	<p>. Parvaiz A. Dar, Naseer A. Dar, Enaitullah Rather, Wajaht A. Shah,</p>	<p>Chemistry</p>	<p>Materials Today Communications</p>	<p>2023</p>	<p>2352-4928</p>	<p>https://doi.org/10.1016/j.mtcomm.2023.106206</p>

,PEG-400 catalysed selective C-Se cross dehydrogenative coupling: An ultrasonication-assisted green strategy	Mahpara Qadir, Aadil Yaseen, Wajaht Amin Shah,	Chemistry	Results in Chemistry	2023	2211-7156	https://doi.org/10.1016/j.rechem.2023.100944
Biological and computational studies of Novel Scaffolds of Gallic Acid: insight from Density Functional Theory and Molecular Docking Studies	Shariqah Hijazi, Nayeem Ahmed, Hitler Louis, Imojara Anna and Wajaht A. Shah	Chemistry	Analytical chemistry letters	2023	22297928	https://doi.10.1080/22297928.2023.2283451.
Photoseeded Silver on Two-Dimensional Nanosheets of Cu-Porphyrin Metal–Organic Framework as a Tandem Electrocatalyst for Highly Efficient Electrochemical Reduction of CO ₂ to CH ₄	FA Sofi, P Kalra, MM Bhat, AA Wani, SA Bhat, AY Bhat, K Majid, PP Ingole, Mohsin Ahmad Bhat		<i>ACS Appl. Nano Mater.</i> 2023, 6, 21, 19689–19700	2023	25740970	https://doi.org/10.1021/acsanm.3c03448
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<p>Design and development of a Sb₂WO₆/graphene oxide (2D) nanocomposite as novel electrochemical metal-ion sensor and improved photocatalyst for the degradation of tetracycline.</p>	<p>Zia-ul-haq, Irfan Nazir, AAliya Qureashi, Firdous Ahmad Ganaie, Arshid Bashir, Kaneez Fatima, Wajaht Amin Shah and Masood Ahmad Rizvi</p>	<p>Chemistry</p>	<p>New journal of chemistry</p>	<p>2023</p>	<p>1369-9261</p>	<p>https://pubs.rsc.org/2023/NJ/D3NJO4093/NJ.</p>
<p>Tailoring Motif and Channel Terminating Groups of Conventional Copper MOFs for Their Enhanced Activity, Selectivity, and Stability toward the Electroreduction of CO₂ to hydrocarbons</p>	<p>N Rashid, FA Dar, MA Bhat, PP Ingole</p>	<p>Chemistry</p>	<p>ACS Applied Energy Materials 6 (3), 1378-1388</p>	<p>2023</p>	<p>2574-0962</p>	<p>https://doi.org/10.1021/acsaem.2c03237</p>

The Enhanced Electrocatalytic Performance of Nanoscopic Cu ₆ Pd ₁₂ Fe ₁₂ Heterometallic Molecular Box Encaged Cytochrome c	S Nabi, FA Sofi, Q Jan, AY Bhat, P Ingole, M Bayati, MA Bhat	Chemistry	Nanoscale	2023	2040-3372	https://doi.org/10.1039/D3NR03451H
N-doped reduced Graphene Oxide Supported PtAg Alloys as Efficient Electrocatalysts for Urea Electrooxidation Reaction	I Amin, SA Bhat, MM Bhat, FA Sofi, AY Bhat, P Ingole, R Mondal, Musthafa Ottakam Thotiyil, Mohsin Ahmad Bhat	Chemistry	New Journal of Chemistry	2023	11440546	https://doi.org/10.1039/D3NJ04229D
Pharmaceutical Cocrystals: A Perspective on Development and Scale-up of Solution Cocrystallization	A Saha, AA Ahangar, AA Dar, S Thirunahari, JV Parambil	Chemistry	Cryst. Growth Des. 2023, 23, 11, 7558–7581	2023	15287505	https://doi.org/10.1021/acs.cgd.2c01553
Mechanistic insights into the aggregation-induced emission of halogenated Schiff base fluorescent probes	AA Ahangar, AA Malik, I Ahmad, AA Dar	Chemistry	Dyes and Pigments 220, 111742	2023	0143-7208	https://doi.org/10.1016/j.dyepig.2023.111742
Switching the Solid-State Emission of Organic Crystals through Cofomer Choice and Vapochromism	I Ahmad, AA Dar	Chemistry	J. Phys. Chem. C 2023, 127, 37, 18684–18693	2023	1932-7447	https://doi.org/10.1021/acs.jpcc.3c03787

A high Z' structure of an organic salt with unusually high phase stability, nanoindentation, and mechano and vapo-fluorochromism	Ishtiyah Ahmad, Arshid A Ganie, Shamim Ahmad, Aadil A Ahangar, C Malla Reddy, Aijaz A Dar	Chemistry	CrystEngComm, 2023,25, 3164-3170	2023	1466-8033	https://doi.org/10.1039/D2CE01693A
Physicochemical and Antifungal Studies of the Pharmaceutical Co-crystal/Salt of Fluconazole	AA Ahangar, H Qadri, AA Malik, MA Mir, AH Shah, AA Dar	Chemistry	Mol. Pharmaceutics 2023, 20, 7, 3471-3483	2023	15438384	https://doi.org/10.1021/acs.molpharmaceut.3c00087
Hetero-Aggregation-Induced Tunable Emission in Multicomponent Crystals	AA Ganie, AA Ahangar, A Dhir, AK Gupta, AA Da	Chemistry	The Journal of Physical Chemistry C 127 (19), 9257-9267	2023	1932-7447	https://doi.org/10.1021/acs.jpcc.3c00178
Multi-Stimuli-Responsive Organo-Sulfonated Anil and Its Organic Complex	I Ahmad, AA Malik, AA Dar	Chemistry	Crystal Growth & Design 22 (11), 6483-6492	2023	15287505	https://doi.org/10.1021/acs.cgd.2c00693
AIE in the halogenated anils and their utilization as fluorescent probes for explosive nitro-aromatics	AA Ahangar, I Ahmad, AA Dar	Chemistry	New J. Chem., 2023,47, 4775-4783	2023	1369-9261	https://doi.org/10.1039/D2NJ05306C

Molecular interactions of diphenyldiselenide in DMSO and varied weight% of ethanol in DMSO solvent media at different compositions and temperatures (288.15 to 318.15) K	S Raheem, A Kumar, GM Peerzada, MA Rizvi	Chemistry	Journal of Molecular Liquids 390, 122941	2023	0167-7322	https://doi.org/ 10.1016/j.molliq.2023.122941
Multiparametric Investigations on Solvation Behaviour and Spectral Shifts of Symmetric Aromatic Diselenides: A case study of Diphenyldiselenide	S Raheem, Richu, T Jan, M Mustafa, GM Peerzada, A Kumar, MA Rizvi	Chemistry	Physics and Chemistry of Liquids, 1-12	2023	1029-0451	https://doi.org/ 10.1080/00319104.2023.2248343
Crystal Structure, quantum chemical analysis and apoptotic propensity of diaryl substituted α -aminophosphonates as selected CP bonded systems	S Raheem, T Jan, A Qayum, O Yadav, M Mustafa, A Ansari, GM Peerzada, S K Singh, M A Rizvi	Chemistry	Polyhedron 244 (37), 116597	2023	0277-5387	https://doi.org/10.1016/j.molliq.2020.11435
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Visible-Light-Mediated Synthesis of N-Acyl-N,O-hemiacetals from Terminal Alkynes: Access to N,N-, N,S-, and N,O-Acetals	MA Ganie, F Fayaz, MS Bhat, MA Rizvi, S Raheem, BA Shah	Chemistry	Organic Letters 25(46)	2023	1523-7060	https://doi.org/ 10.1021/acs.orglett.3c03263

Studies towards investigation of Naphthoquinone-based scaffold with crystal structure as lead for SARS-CoV-19 management	SM Ansari, G Khanum, MA Rizvi, NUD Reshi, MA Ganie, S Javed, B A Shah	Chemistry	Journal of Molecular Structure 1283(4), 135256	2023	0022-2860	https://doi.org/10.1016/j.molstruc.2023.135256
Antituberculosis Propensity of Synthetic Biscoumarin Derivatives: An In Silico and In Vitro Approach	BA Sheikh, BA Bhat, H Zareen, MA Rizvi, Z Ahmad, M Alkhanani, A Almilaibary, S A Alsagaby, M A Mir	Chemistry		2023		
						https://doi.org/10.20944/preprints202303.0502.v1
Electronic structures and ligand effect on redox potential of iron and cobalt complexes: a computational insight	M Kumar, MK Gupta, MA Rizvi, A Ansari	Chemistry	Structural Chemistry 34(4), 1-11	2023	15729001	https://doi.org/10.1007/s11224-022-02119-3
Exploiting multiferroicity of TbFeO ₃ nanoparticles for hydrogen generation through photo/electro/photoelectrocatalytic water splitting	Huma Khan, Irfan Hussain Lone, Samuel Edward Lofl and, Kandalam Venkata Ramanujachary, Tokeer Ahmad	Chemistry	International Journal of Hydrogen Energy	2023	1879-3487	https://doi.org/10.1016/j.ijhydene.2022.11.143

Design and development of a Sb 2 WO 6 /graphene oxide (2D) nanocomposite as novel electrochemical metal-ion sensor and improved photocatalyst for the degradation of tetracycline	Ziaul haq ,I Nazir, A Qureashi, FA Ganaie, A Bashir, K Fatima, WA Shah, MA Rizvi	Chemistry	New Journal of Chemistry 47(1)	2023	1369-9261	https://doi.org/10.1039/D3NJ04093C
Harnessing the power of gold: advancements in anticancer gold complexes and their functionalised nanoparticles	M.A. Malik, A.A. Hashmi, M.Y. wani	Chemistry	Journal of Materials Chemistry B	2024	2050-750X	http://doi.org/10.1039/D3TB01976D
Unravelling the anticancer potential of a square planar copper complex: toward non-platinum chemotherapy	M.A. Malik, Md. K. Raza, A. Mohammad, A.A. Hashmi, M.Y. wani	Chemistry	RSC Advances	2021	20462069	http://doi.org/10.1039/D1RA06227A
Pd-catalyzed bidentate auxiliary assisted remote C (sp ³)-H functionalization	K. Talukdar, Tariq A. Shah†, T.Sarkar, S.Roy, P. K Maharana, T.Punniyamurthy	Chemistry	Chem. Commun	2021	1359-734	http://DOI.org/10.1039/d1cc05291h
“Transition-Metal catalysed Directing group assisted (hetero) aryl C-H functionalization: Construction of C-C/C-H heteroatom Bonds”	T.Sarkar, Tariq A. Shah†, P. K Maharana, K.Talukdar, B. K Das, T.Punniyamurthy	Chemistry	The Chemical Record	2021	2052-4129	http://doi.org/10.1002/tcr.202100143
Tetrahalomethanes: Multitasking agents as mediator, catalyst and reagent in organic synthesis	Sandeep Kumar, Tariq A. Shah and T. Punniyamurthy	Chemistry	Organic Chemistry Frontier	2021	1099-0690	http://doi.org/10.1002/ejoc.202200541
Dual Metallaphotoredox-Catalyzed Directed C(sp ²)-H	Tanumay Sarkar, Dr.	Chemistry	European Journal of Organic Chemistry	2022	1099-0690.	http://doi.org/10.1002/ejoc.202200541

Functionalization: Access to C-C/C-Heteroatom Bonds	Tariq A. Shah†, Prabhat Kumar Maharana, Bijoy Debnath, T. Punniyamurthy					